

Title (en)

COATING FLUID FOR FORMING HARD COATING AND SUBSTRATES COVERED WITH HARD COATING

Title (de)

FLÜSSIGE BESCHICHTUNGSZUSAMMENSETZUNG ZUR BILDUNG VON HARTEN ÜBERZÜGEN SOWIE VON DENSELBEN BESCHICHTETE SUBSTRATE

Title (fr)

LIQUIDE D'ENDUCTION POUR FORMER DES REVETEMENTS DURS ET SUBSTRATS RECOUVERTS DE REVETEMENTS DURS

Publication

EP 1041123 B1 20050302 (EN)

Application

EP 98959192 A 19981214

Priority

- JP 9805638 W 19981214
- JP 34618797 A 19971216

Abstract (en)

[origin: EP1041123A1] A coating liquid for forming on a substrate surface a hard coat film which exhibits a high refractive index, being excellent in resistance to hot water, weather resistance, scuffing resistance, attrition resistance and dye affinity, and which does not exhibit photochromism, is provided. A coating liquid for forming a hard coat film, comprises a matrix-forming component and composite metal oxide particles of 1 to 100 nm average particle size, composed either of an iron oxide component and a titanium oxide component used at a specified ratio or an iron oxide component, a titanium oxide component and a silica component used at a specified ratio. A substrate coated with a hard coat film is formed by applying the above coating liquid to the substrate surface and effecting drying.

IPC 1-7

C09D 5/00; **C09D 7/12**; **C09D 1/00**; **C09D 183/00**; **G02B 1/10**

IPC 8 full level

B82Y 20/00 (2011.01); **B82Y 30/00** (2011.01); **C09D 5/00** (2006.01); **C09D 7/62** (2018.01); **G02B 1/11** (2015.01); **G02B 1/115** (2015.01); **G02B 1/14** (2015.01)

CPC (source: EP KR US)

C09D 5/00 (2013.01 - KR); **C09D 7/62** (2017.12 - EP US); **C09D 7/67** (2017.12 - EP US); **G02B 1/14** (2015.01 - US); **G02B 1/18** (2015.01 - EP US); **C08K 3/22** (2013.01 - EP US); **C08K 9/06** (2013.01 - EP US); **Y10T 428/257** (2015.01 - EP US); **Y10T 428/259** (2015.01 - EP US); **Y10T 428/31663** (2015.04 - EP US)

Cited by

EP2368950B1; EP1225983A4; WO2008148363A3; WO2023141066A1; WO2023141065A1; EP2368950A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1041123 A1 20001004; **EP 1041123 A4 20030528**; **EP 1041123 B1 20050302**; AU 1506999 A 19990705; AU 736533 B2 20010802; DE 69829213 D1 20050407; DE 69829213 T2 20050721; JP 3998786 B2 20071031; JP H11172152 A 19990629; KR 100384730 B1 20030522; KR 20010033189 A 20010425; US 6858294 B1 20050222; WO 9931185 A1 19990624

DOCDB simple family (application)

EP 98959192 A 19981214; AU 1506999 A 19981214; DE 69829213 T 19981214; JP 34618797 A 19971216; JP 9805638 W 19981214; KR 20007006573 A 20000616; US 58160400 A 20000615